

ABSTRACT

As a system for switching over an attracting condition and a holding condition of an operating coil (3), since an auxiliary contact (b-contact) (5), which reaches an open circuit condition when a main contact (4) is in a closed circuit condition and reaches a closed circuit condition when the main contact (4) is in an open circuit condition and which an MC itself has originally reached, is used, a complicated circuit to judge an end timing of the attracting condition becomes unnecessary, thus a simplification of a drive circuit can be realized. In addition, since an exciting current that flows to the operating coil (3) is made into a minute current by chopper control by use of a current limiting semiconductor switching element (6), it is unnecessary to use a thick wire rod for the operating coil (3), and a thin wire rod equivalent to a wire rod used for an operating coil of a general-purpose alternating-current voltage-driven MC, thereby a reduction in size and cost of the direct-current voltage-driven MC can be realized.